

## CLAIMS:

1. A *Streptococcus pneumoniae* protein or polypeptide having a sequence selected from those shown in table 1.

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2. A *Streptococcus pneumoniae* protein or polypeptide having a sequence selected from those shown in table 2.

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3. A protein or polypeptide as claimed in claim 1 or claim 2 provided in substantially pure form.

4. A protein or polypeptide which is substantially identical to one defined in any one of claims 1 to 3.

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5. A homologue or derivative of a protein or polypeptide as defined in any one of claims 1 to 4.

6. An antigenic and/or immunogenic fragment of a protein or polypeptide as defined

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in Tables 1-3.

7. A nucleic acid molecule comprising or consisting of a sequence which is:

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(i) any of the DNA sequences set out in Table 1 or their RNA equivalents;

(ii) a sequence which is complementary to any of the sequences of (i);

- (iii) a sequence which codes for the same protein or polypeptide, as those sequences of (i) or (ii);
- (iv) a sequence which is substantially identical with any of those of (i), (ii) and (iii);
- (v) a sequence which codes for a homologue, derivative or fragment of a protein as defined in Table 1.
8. A nucleic acid molecule comprising or consisting of a sequence which is:
- (i) any of the DNA sequences set out in Table 2 or their RNA equivalents;
- (ii) a sequence which is complementary to any of the sequences of (i);
- (iii) a sequence which codes for the same protein or polypeptide, as those sequences of (i) or (ii);
- (iv) a sequence which is substantially identical with any of those of (i), (ii) and (iii);
- (v) a sequence which codes for a homologue, derivative or fragment of a protein as defined in Table 2.
9. The use of a protein or polypeptide having a sequence selected from those shown in Tables 1-3, or homologues, derivatives and/or fragments thereof, as an immunogen and/or antigen.

10. An immunogenic and/or antigenic composition comprising one or more proteins or polypeptides selected from those whose sequences are shown in Tables 1-3, or homologues or derivatives thereof, and/or fragments of any of these.
- 5 11. An immunogenic and/or antigenic composition as claimed in claim 10 which is a vaccine or is for use in a diagnostic assay.
12. A vaccine as claimed in claim 11 which comprises one or more additional components selected from excipients, diluents, adjuvants or the like.
- 10 13. A vaccine composition comprising one or more nucleic acid sequences as defined in Tables 1-3.
- 15 14. A method for the detection/diagnosis of *S.pneumoniae* which comprises the step of bringing into contact a sample to be tested with at least one protein or polypeptide as defined in Tables 1-3, or homologue, derivative or fragment thereof.
- 20 15. An antibody capable of binding to a protein or polypeptide as defined in Tables 1-3, or for a homologue, derivative or fragment thereof.
- 25 16. An antibody as defined in claim 15 which is a monoclonal antibody.
17. A method for the detection/diagnosis of *S.pneumoniae* which comprises the step of bringing into contact a sample to be tested and at least one antibody as defined in claim 15 or claim 16.
18. A method for the detection/diagnosis of *S.pneumoniae* which comprises the step of bringing into contact a sample to be tested with at least one nucleic acid

sequence as defined in claim 7 or claim 8.

19. A method of determining whether a protein or polypeptide as defined in  
Tables 1-3 represents a potential anti-microbial target which comprises inactivating  
5 said protein or polypeptide and determining whether *S.pneumoniae* is still viable.

20. The use of an agent capable of antagonising, inhibiting or otherwise  
interfering with the function or expression of a protein or polypeptide as defined in  
Tables 1-3 in the manufacture of a medicament for use in the treatment or  
10 prophylaxis of *S.pneumoniae* infection

00769744-043630-1  
F09E10-TH26260